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October 24, 2018  
*VIA ECFS*

Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 Twelfth Street, S.W.  
Washington, DC 20554

**REDACTED – FOR PUBLIC INSPECTION**

**Re: Notification of Oral *Ex Parte* Presentation  
Applications of T-Mobile US, Inc. and Sprint Corporation for Consent to Transfer  
Control of Licenses and Authorizations; WT Docket No. 18-197**

Dear Ms. Dortch:

Pursuant to Section 1.1206(b) of the Commission's Rules, 47 C.F.R. § 1.1206(b), notice is hereby provided of an oral *ex parte* communication in the above-captioned docket. On October 22, 2018, Mark McDiarmid, Senior Vice President, Radio Network Engineering and Development, Ankur Kapoor, Vice President, Network Technology of T-Mobile US, Inc. ("T-Mobile") and other representatives of T-Mobile and Sprint Corporation ("Sprint")<sup>1</sup> met with members of the FCC Transaction Team (a list of FCC participants is provided in Attachment A).<sup>2</sup>

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<sup>1</sup> Those representatives included Steve Sharkey and Marie Grace Jacinto of T-Mobile, Mike Senkowski, Nancy Victory, and Thomas Dombrowsky of DLA Piper LLP, Tara Tavernia of Cleary Gottlieb Steen & Hamilton, LLP, Tom Peters of Hogan Lovells US LLP, Chris Helzer of Quadra Partners LLC, Joseph Rancour of Skadden, Arps, Slate, Meagher & Flom LLP, David Meyer of Morrison & Foerster LLP and David Fenichel of Compass Lexecon (via telephone).

<sup>2</sup> Also participating in the meeting were Jared Hughes, Janet Young, Margaret Loudermilk, and Scott Reiter of the Department of Justice, Antitrust Division, and the Department's consultants, Dan Ledger and Jack O'Gorman of Endeavor Partners (via telephone).

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During the meeting, the Applicants discussed the network model and documentation previously provided to the Commission in response to its August 15, 2018 information request.<sup>3</sup> Specifically, the Applicants showed how the network model is utilized to determine if there may be network congestion for the LTE and 5G networks for standalone T-Mobile, standalone Sprint, and New T-Mobile. For example, the Applicants demonstrated: (1) how the model determined the available capacity at a sector level for the 5G network, (2) how 5G traffic is redistributed from a non-5G site to neighboring 5G sites (as described in the attached presentation), (3) how the 5G user throughput in a given sector is calculated and applied in the engineering model, and (4) how incremental solutions are applied to remedy congestion (both for LTE and 5G).

The Applicants also discussed the engineering model documentation including: (1) determination of cell sites for 5G, (2) spectral efficiency calculations, (3) spectrum refarming from LTE to 5G, (4) utilization of signal-to-interference-plus-noise ratio (“SINR”) references used to determine coverage, (5) retention of cell sites from Sprint’s network in the New T-Mobile network, (6) accommodation of carrier aggregation for LTE in the network model, and (7) application of densification gain for sectors with small cells or mini macro cells. In light of this detailed discussion, T-Mobile committed to providing supplemental engineering filings for the engineering model documentation in these areas as well as (1) an operational site list for T-Mobile, (2) documentation on the methodology used to determine when and where mid-band spectrum would be deployed in rural areas, and (3) documentation of what sites were identified to support fixed broadband services.

Finally, the Applicants noted that the site data in the engineering model came from T-Mobile’s records for LTE in June of 2017 and included sites planned as part of the company’s long-range plans that ran until 2021. This site information was refreshed in April 2018 to include additional sites that had been added by the company since June of 2017. T-Mobile also described that [REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED] Additionally, T-Mobile noted that there are [REDACTED]  
[REDACTED]  
[REDACTED] Moreover, the engineering model does not consider [REDACTED]  
[REDACTED] T-Mobile explained that [REDACTED]  
[REDACTED].

This filing contains information that is “Highly Confidential” pursuant to the Protective Order filed in WT Docket No. 18-197. Accordingly, pursuant to the procedures set forth in the

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<sup>3</sup> T-Mobile provided its response on September 5, 2018 in WT Docket No. 18-197. The network model and documentation was provided as a response to Specification 13 and was updated on September 17, 2018 in WT Docket No. 18-197.

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Protective Order, a copy of the filing is being provided to the Secretary's Office. In addition, two copies of the Highly Confidential Filing are being delivered to Kathy Harris, Wireless Telecommunications Bureau. A copy of the Redacted Highly Confidential Filing is being filed electronically through the Commission's Electronic Comment Filing System.

Please direct any questions regarding the foregoing to the undersigned.

Respectfully submitted,

**DLA Piper LLP (US)**

*/s/ Nancy J. Victory*

Nancy J. Victory  
Partner

NV

cc: David Lawrence  
Kathy Harris  
Linda Ray  
Kate Matraves  
Jim Bird  
David Krech  
Individuals Listed in Attachment A

## **ATTACHMENT A**

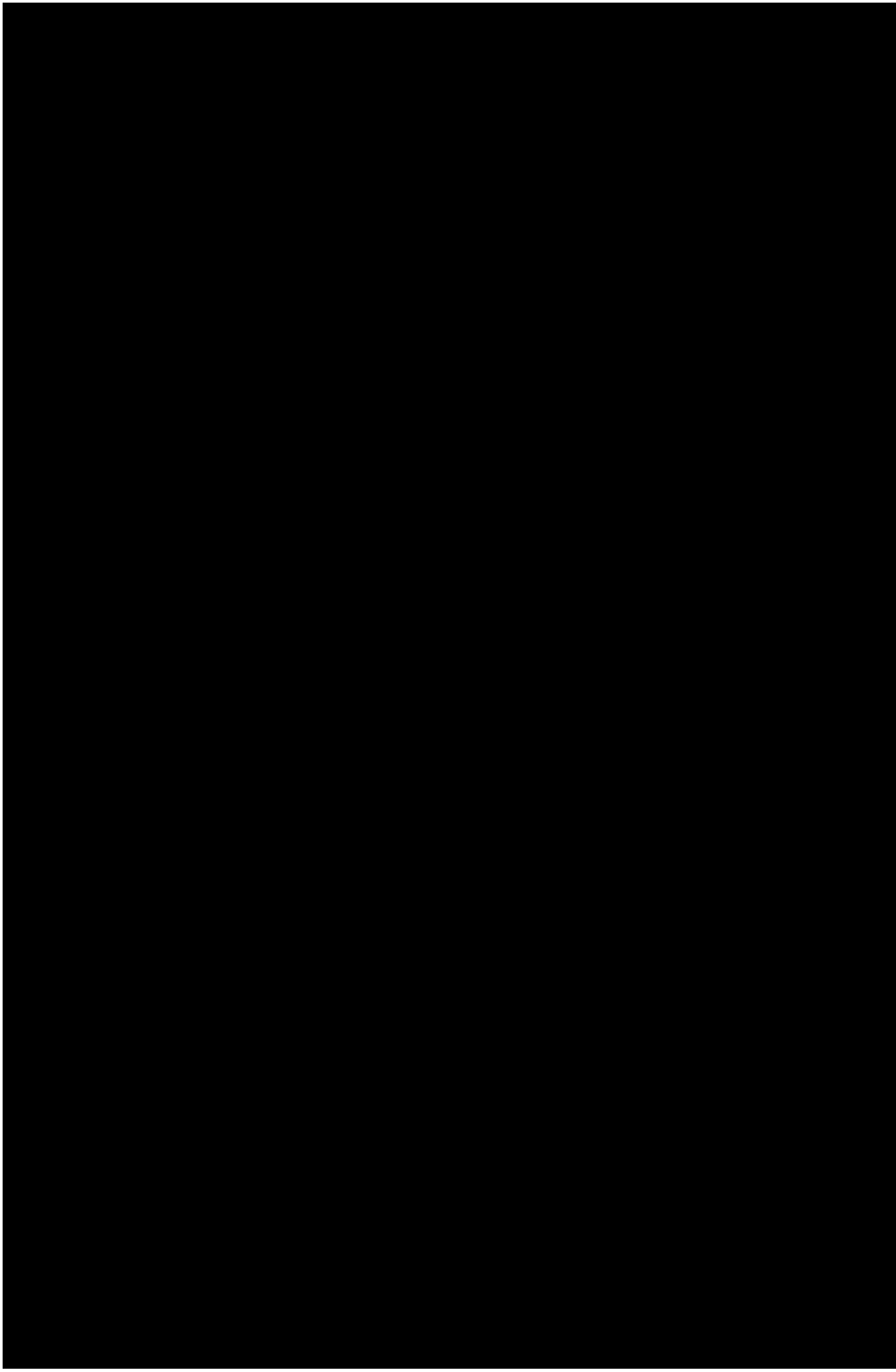
### **LIST OF FCC PARTICIPANTS**

David Lawrence (via telephone)  
Charles Mathias  
Ronald Repasi  
Saurbh Chhabra  
Matthew Collins  
Robert Pavlak  
Ziad Sleem  
Thuy Tran  
Weiren Wang  
Murtaza Nasafi

**ATTACHMENT B**

**PRESENTATION DECK**

# 5G Sub Re-Distribution example - CH46592C



# 5G Sub Re-Distribution Drill Down - CH46592C2

